

## Two Stroke Engines

Engine Size	Starting Prop	Alternate Props
.049	6x3	5-1/4x4, 5-1/2x4, 6x3-1/2, 6x4, 7x3
.09	7x4	7x3, 7x4-1/2, 7x5
.15	8x4	8x5, 8x6, 9x4
.19 - .25	9x4	8x5, 8x6, 9x5
.20 - .30	9x6	9x7, 9-1/2x6, 10x5
.35 - .36	10x6	9x7, 10x5, 11x4
.40	10x6	9x8, 11x5
.45	10x7	10x6, 11x5, 11x6, 12x4
.50	11x6	10x8, 11x7, 12x4, 12x5
.60-.61	11x7	11x7-1/2, 11x7-3/4, 11x8, 12x6
.70	12x6	11x8, 12x8, 13x6, 14x4
.78 - .80	13x6	12x8, 14x4, 14x5
.90 - .91	14x6	13x8, 15x6, 16x5
1.08	16x6	15x8, 18x5
1.20	16x8	16x10, 18x5, 18x6
1.50	18x6	18x8, 20x6
1.80	18x8	18x10, 20x6, 20x8, 22x6
2.00	20x8	18x10, 20x6, 20x10, 22x6

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## Four Stroke Engines

Engine Size	Starting Prop	Alternate Props
.20 - .21	9x6	9x5, 10x5
.40	11x6	10x6, 10x7, 11x4, 11x5, 11x7, 11x 7-1/2, 12x4, 12x5
.45 - .48	11x6	10x6, 10x7, 10x8, 11x7, 11x7-1/2, 12x4, 12x5, 12x6
.60 - .65	12x6	11x7-1/2, 11x7-3/4, 11x8, 12x8, 13x5, 13x6, 14x5, 14x6
.80	13x6	12x8, 13x8, 14x4, 14x6
.90	14x6	13x6, 14x8, 15x6, 16x6

1.20	16x6	14x8, 15x6, 15x8, 16x8, 17x6, 18x5, 18x6
1.60	18x6	15x6, 15x8, 16x8, 18x6, 18x8, 20x6
2.40	18x10	18x12, 20x8, 20x10
2.70	20x8	18x10, 18x12, 20x10
3.00	20x10	18x12, 20x10

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- **Install the prop with the curved side of the blade facing forward and tighten the prop nut or bolt with the proper size wrench.**
  - **Recheck the tightness of the nut or bolt often, especially on wood props which tend to compress and loosen more easily.**
  - **When starting the engine, keep spectators at a safe distance clear of the model and out of the path of the propellor.**
  - **Keep hands away from the prop as much as possible. Use an electric starter or if you're going to start by hand use a chicken stick.**
  - **Keep face and body out of prop arc as engine is started and run.**
  - **Never throw anything into the prop to stop the engine. Pinch off the engine's fuel supply.**
  - **Make all adjustments from behind the prop except on pusher installations.**
  - **Discard any prop with nicks, scratches, splits, cracks or any other sign of damage. Never attempt to repair, alter or bend a prop.**
  - **Don't run an engine in areas of loose gravel, sand or grass as the prop can throw such materials into your face and eyes.**
  - **Keep loose clothing, shirt sleeves and other such items away from the prop and avoid carrying items that can fall into the prop such as pens, screwdrivers, etc when starting the engine.**
  - **Be sure to keep the glow driver wire out of the prop path.**
  - **If a spinner is used, make sure the prop cutouts clear the propellor blades. The prop can not touch any portion of the spinner.**
  - **The safe area is any area behind the prop. The danger zone is from the the blade tip forward to the spinner and back to the other blade tip.**